Method and apparatus for the cooling of vessel parts of a metallurgical furnace, especially an electric-arc furnace

Numéro du brevet: EP0044512
Date de publication: 1982-01-27
Inventeur: MARNETTE WERNER DR
Demandeur KORF & FUCHS SYST TECH (DE)
Classification:
- internationale F27D1/12; F27B3/24; F27D9/00
- européenne F27B3/24; F27D1/12; H05B7/06
Numéro de demande EP19810105529 19810714
Numéro(s) de priorité: DE19803027465 19800719

Également publié en tant que:

JP57052788 (A)
ES8205459 (A)
EP0044512 (B1)
DE3027465 (C1)

Documents cités:

US4024764
FR1335903
DE1043591
DE1133083
US2275515
pour plus d'information >>

Report a data error he

Abrégé pour **EP0044512**

1. A process for cooling parts of the container structure of a metallurgical furnace, which parts are subject to thermal loadings which fluctuate in respect of time and position, comprising a cooling box which is fitted into the wall region to be cooled or which forms the wall region and which includes a heat exchange surface on to which a cooling fluid is sprayed, characterised in that the temperature distribution in respect of space and time, on the heat exchange surface, is detected by a plurality of independent temperature measuring means and cooling fluid is sprayed on to the heat exchange surface region associated with the measurement value, over a large area thereof or in a localised manner, only so lang as the respective measurement value is above the boiling point of the cooling fluid, and that the amount of cooling fluid so sprayed is limited to a value in respect of which the cooling fluid is caused to evaporate spontaneously avoiding the formation of a coherent film of fluid.

FIG. 1